

WHAT IS CLAIMED IS:

1                   1.       In communication system, a method of optimizing MPEG-7  
2 transmissions between a server and an one or more clients, a first ADL (application  
3 descriptive language) which is a subset of MPEG-7 DDL (Description definition language)  
4 being translated into binary for communication to the first client, the method comprising:  
5                   receiving, by the first client, the binary communication of the ADL; and  
6                   translating, by the first client, the binary communication into the first ADL,  
7 the binary communication being translated using a frequency table, and an XSLT (XML style  
8 translation) document for translating MPEG-7 into the first ADL.

1                   2.       The method of claim 1 further comprising  
2 generating the first ADL from the MPEG-7 DDL.

1                   3.       The method of claim 1 further comprising  
2 generating, by the server, the XSLT document.

1                   4.       The method of claim 1 further comprising  
2 generating, by the server, the frequency table for translating the first ADL into  
3 binary.

1                   5.       The method of claim 1 further comprising  
2 downloading, by the first client, the frequency table and the XSLT, prior to  
3 receiving the binary communication.

1                   6.       The method of claim 1 wherein translating the binary document into  
2 the first ADL further comprises  
3                   generating, a decoding codebook for the binary communication using the  
4 frequency tables and the XSLT document.

1                   7.       The method of claim 1 further comprising  
2 communicating information carried by the binary communication to a second  
3 client via the server.

1                   8.       The method of claim 7 further comprising  
2 translating the first ADL into the binary communication;  
3 forwarding the binary communication to the server;

4 translating, by the server, the binary communication into first ADL;  
5 translating the first ADL into the MPEG-7 DDL; and  
6 translating the MPEG-7 into a second ADL different from the first ADL.

1 9. The system of claim 8 further comprising  
2 translating the second ADL into binary communication for forwarding to the  
3 second client.